

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Pan-Spray (Black) (4296-51)

Not available Other means of identification Recommended use Coating **Recommended restrictions** None known. Nu-Calgon Manufacturer

2008 Altom Court St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

2. Hazards Identification

Flammable aerosols **Physical hazards** Category 1 Gases under pressure

> Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Germ cell mutagenicity Category 2 Carcinogenicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements

Health hazards



Reproductive toxicity (the unborn child)

Danger Signal word

Hazard statement Suspected of causing cancer.

Suspected of damaging the unborn child. Suspected of causing genetic defects.

Causes skin irritation. Causes serious eye irritation. Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

May cause drowsiness or dizziness.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood.

Wash thoroughly after handling.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Do not eat, drink or smoke when using this product. Use only outdoors or in a

Liquefied gas

Category 2

well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Response If exposed or concerned: Get medical advice/attention.

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see this label). Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor if you feel unwell.

Storage Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Store in a well-ventilated place. Keep container tightly closed.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations. None known.

Supplemental information

Not applicable.

3. Composition/Information on Ingre	edients
-------------------------------------	---------

3. Composition/Information on Ingredients				
Mixture				
Chemical name	Common name and synonyms	CAS number	%	
Acetone		67-64-1	10 - 30	
Heptane		142-82-5	10 - 30	
Methane, oxybis-		115-10-6	10 - 30	
Toluene		108-88-3	10 - 30	
Distillates, petroleum, steam-cracked, polymers with steam-cracked petroleum napl		68410-16-2	5 - 10	
Isobutane		75-28-5	5 - 10	
Propane		74-98-6	5 - 10	
2-Propanol, 1-methoxy-, aceta	te	108-65-6	1 - 5	
Quaternary ammonium compo bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite	ounds,	68953-58-2	1 - 5	
2-Pentanone, 4-methyl-		108-10-1	0.1 - 1	
Carbon black		1333-86-4	0.1 - 1	
Composition comments	US GHS: The exact percentage (concentration) secret in accordance with paragraph (i) of §1910 4. First Aid Measures		withheld as a trade	
Inhalation	If inhaled: If breathing is difficult, remove person Call a poison center/doctor if you feel unwell.		_	
Skin contact	If on skin: Wash with plenty of water. If skin irrita treatment (see product label). Take off contamin			
Eye contact	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present an easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.			
Ingestion	In the unlikely event of swallowing contact a phy not induce vomiting. Never give anything by mou Obtain medical attention.			
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause drowsiness or dizziness. May cause redness and pain. Prolonged exposure may cause chronic effects.			
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat s Symptoms may be delayed.	symptomatically. Keep vic	tim under observation.	
General information	Ensure that medical personnel are aware of the protect themselves. IF exposed or concerned: G sheet to the doctor in attendance. Do not punctu temperatures above 49°C. Keep away from sour	et medical advice/attention re or incinerate container	n. Show this safety da Do not store at	
	5. Fire Fighting Measur	es		
Suitable extinguishing media	Foam. Carbon dioxide. Dry chemical.			
Unsuitable extinguishing	Water. Do not use water jet as an extinguisher, a	as this will spread the fire.		

Suitable extinguishing media
Unsuitable extinguishing media

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out. Firefighters should wear a self-contained breathing apparatus.

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire-fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Hazardous combustion

products

Extremely flammable aerosol.

May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical

impact

Not available.

Sensitivity to static discharge

Not available.

5. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing gas. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

6. Handling and Storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact during pregnancy/while nursing. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Use good industrial hygiene practices in handling this material.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

7. Exposure Controls/Personal Protection

Occupational exposure limits

Components	Туре	Value	
2-Pentanone, 4-methyl- (CAS 108-10-1)	PEL	410 mg/m3	
		100 ppm	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m3	
Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
US. OSHA Table Z-2 (29 CFR 1910	.1000)		
Components	Туре	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	

Components	Туре	Value	Form
2-Pentanone, 4-methyl- (CAS 108-10-1)	STEL	75 ppm	
	TWA	20 ppm	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Isobutane (CAS 75-28-5)	STEL	1000 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Che Components		Value	
	Type STEL	300 mg/m3	
2-Pentanone, 4-methyl- (CAS 108-10-1)	SIEL	300 mg/ms	
		75 ppm	
	TWA	205 mg/m3	
		50 ppm	
Acetone (CAS 67-64-1)	TWA	590 mg/m3 250 ppm	
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m3	
Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3 440 ppm	
	TWA	350 mg/m3 85 ppm	
Isobutane (CAS 75-28-5)	TWA	1900 mg/m3 800 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm	
Toluene (CAS 108-88-3)	STEL	560 mg/m3 150 ppm	
	TWA	375 mg/m3 100 ppm	
US. AIHA Workplace Environmen	tal Exposure Level (WEEL) Guid	10c	
Components	Type	Value	
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)	TWA	50 ppm	
Methane, oxybis- (CAS 115-10-6)	TWA	1880 mg/m3	
,		1000 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-Pentanone, 4-methyl- (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine	*
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Rubber gloves. Confirm with a reputable supplier first. Hand protection

Other Wear appropriate chemical resistant clothing. As required by employer code.

Wear positive pressure self-contained breathing apparatus (SCBA). Where exposure guideline Respiratory protection

levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards Not applicable.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

8. Physical and Chemical Properties

Spray **Appearance** Physical state Gas. **Form** Aerosol Black Color Solvent Odor Odor threshold Not available. рΗ Not available. Melting point/freezing point Not available. Not available. Initial boiling point and boiling

range Pour point

Not available. 0.81 - 0.85Specific gravity **Partition coefficient** Not available.

(n-octanol/water)

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure 55 - 65 psig

Vapor density Not available. Not available. Relative density Solubility(ies) Not available. Not av ailable. **Auto-ignition temperature Decomposition temperature** Not av ailable. 200 - 250 cP **Viscosity**

Other information

Flame extension > 100 cm Flammability (flash back) No

9. Stability and Reactivity

Possibility of hazardous

reactions

Reactivity

This product may react with strong oxidizing agents.

Hazardous polymerization does not occur.

Stable under recommended storage conditions. Chemical stability

Do not mix with other chemicals. Aerosol containers are unstable at temperatures above 49°C Conditions to avoid

(120.2°F).

Incompatible materials

Hazardous decomposition

Oxidizers.

products

May include and are not limited to: Oxides of carbon.

10. Toxicological Information

Inhalation. Ingestion. Skin contact. Eye contact. Routes of exposure

Information on likely routes of exposure

Expected to be a low ingestion hazard. Ingestion

Prolonged inhalation may be harmful. May cause damage to organs by inhalation. Narcotic Inhalation

effects.

Skin contact Causes skin irritation.

Causes serious eye irritation. Eye contact

Symptoms related to the physical, chemical and

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting. toxicological characteristics

Information on toxicological effects

Narcotic effects. **Acute toxicity**

Components Species **Test Results**

2-Pentanone, 4-methyl- (CAS 108-10-1)

Acute

Dermal

LD50 Rabbit 16000 mg/kg

Inhalation

LC50 Rat 8.2 mg/l, 4 Hours

Oral

LD50 Mouse 1200 mg/kg Rat

2080 mg/kg

2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)

Acute

Dermal

Rabbit LD50 > 5000 mg/kg

Inhalation

Rat LC50 > 5320 ppm, 4 hours

Oral

LD50 Rat 8532 mg/kg

Acetone (CAS 67-64-1)

Acute

Dermal

LD50 Rabbit 15800 mg/kg

20 ml/kg

Inhalation

LC50 Mouse 44000 mg/m3/4H

> Rat 76 mg/l, 4 Hours

> > 50.1 mg/l, 8 Hours

39 mg/l/4h

Oral

LD50 Human 2 857 mg/kg

> Mouse 3000 mg/kg Rabbit 5340 mg/kg Rat 5800 mg/kg

Test Results Species Components Carbon black (CAS 1333-86-4) Acute Dermal LD50 Rabbit > 3000 mg/kg Inhalation LC50 Not available Oral LD50 Rat > 8000 mg/kg Distillates, petroleum, steam-cracked, polymers with light steam-cracked petroleum naphtha (CAS 68410-16-2) LC50 Not available. **LD50** Not available. Heptane (CAS 142-82-5) Acute Inhalation LC50 Rat 103 mg/l, 4 Hours LD50 Mouse 75 mg/l, 2 Hours Oral LD50 Rat 15000 mg/kg Isobutane (CAS 75-28-5) Acute Dermal LD50 Not available Inhalation LC50 Rat 658 mg/l/4h Oral LD50 Not available Methane, oxybis- (CAS 115-10-6) Acute Inhalation LC50 Mouse 494 ppm, 15 Minutes 386 ppm, 30 Minutes Rat 308.5 mg/l, 4 Hours Oral LD50 Not available Propane (CAS 74-98-6) Acute Inhalation LC50 Rat > 1442.8 mg/l, 15 Minutes Oral LD50 Not available Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite (CAS 68953-58-2) Acute Inhalation LC50 Rat 12.6 mg/l/4h Oral LD50 Rat 5000 mg/kg

Toluene (CAS 108-88-3)

Acute Dermal

LD50 Rabbit 12196 mg/kg

12125 mg/kg

Test Results Components **Species** 8390 mg/kg 14.1 ml/kg

Inhalation

LC50 Mouse 7100 mg/l, 4 Hours

> 5320 ppm, 8 Hours 400 ppm, 24 Hours

Rat 26700 ppm, 1 Hours

> <= 28800 mg/m3, 4 Hours 12200 ppm. 2 Hours 8000 ppm, 4 Hours

12.5 mg/l/4h

Oral

LD50 Rat > 5580 mg/kg

636 mg/kg

Skin corrosion/irritation Causes skin irritation.

Exposure minutes Not available. Erythema value Not available. Not available. Oedema value

Serious eye damage/eye

irritation

Causes serious eye irritation.

Corneal opacity value Not available. Iris lesion value Not available. Conjunctival reddening Not available.

value

Recover days

Not available. Conjunctival oedema value Not available.

Respiratory or skin sensitization

Not available. Respiratory sensitization

Skin sensitization This product is not expected to cause skin sensitization.

Non-hazardous by WHMIS/OSHA criteria. Germ cell mutagenicity Non-hazardous by WHMIS/OSHA criteria. Mutagenicity

Carcinogenicity Suspected of causing cancer.

ACGIH Carcinogens

2-Pentanone, 4-methyl- (CAS 108-10-1) A3 Confirmed animal carcinogen with unknown relevance to

humans.

Acetone (CAS 67-64-1) A4 Not classifiable as a human carcinogen.

Carbon black (CAS 1333-86-4) A3 Confirmed animal carcinogen with unknown relevance to

humans.

Toluene (CAS 108-88-3) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Pentanone, 4-methyl- (CAS 108-10-1) Volume 101 - 2B Possibly carcinogenic to humans.

Carbon black (CAS 1333-86-4) Volume 65, Volume 93 - 2B Possibly carcinogenic to humans. Toluene (CAS 108-88-3) Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to

humans.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Carcinogenic. Benzene (CAS 71-43-2) Carcinogenic. Carbon black (CAS 1333-86-4) Carcinogenic. Crystalline silica (CAS 14808-60-7) Carcinogenic.

Suspected of damaging the unborn child. Reproductive toxicity

Toluene (benzene, methyl-) has caused fetotoxicity (reduced fetal weight), behavioural effects **Teratogenicity**

(effects on learning and memory) and hearing loss (in males). These effects have been observed in the offspring of rats exposed by inhalation to 1200 or 1800 ppm toluene. These effects were

observed in the absence of maternal toxicity.

Specific target organ toxicity -

single exposure

Narcotic effects.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not likely, due to the form of the product. Prolonged inhalation may be harmful.

Chronic effects Further information

Not available. Not available.

Name of Toxicologically **Synergistic Products**

11. Ecological Information

Ecotoxicity See below

Species Test Results Components

2-Pentanone, 4-methyl- (CAS 108-10-1)

EC50 170 mg/L, 48 Hours Crustacea Daphnia

Aquatic

LC50 Fish Fathead minnow (Pimephales promelas) 492 - 593 mg/l, 96 hours

2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)

Crustacea EC50 Daphnia 500 mg/L, 48 Hours

Acetone (CAS 67-64-1)

EC50 Daphnia 13999 mg/L, 48 Hours Crustacea

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 21.6 - 23.9 mg/l, 48 hours 4740 - 6330 mg/l, 96 hours

Fish LC50 Rainbow trout.donaldson trout

(Oncorhynchus mykiss)

Heptane (CAS 142-82-5)

Aquatic

Fish LC50 Mozambique tilapia (Tilapia 375 ma/l. 96 hours

mossambica)

Toluene (CAS 108-88-3)

IC50 433 mg/L, 72 Hours Algae Algae 7.645 mg/L, 48 Hours Crustacea EC50 Daphnia

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 5.46 - 9.83 mg/l, 48 hours 8.11 mg/l, 96 hours Fish LC50

Coho salmon, silver salmon (Oncorhynchus kisutch)

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential No data available. No data available. Mobility in soil Mobility in general Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects potential, endocrine disruption, global warming potential) are expected from this component.

12. Disposal Considerations

Disposal instructions Contents under pressure. Do not puncture, incinerate or crush. This material and its container

> must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

US RCRA Hazardous Waste U List: Reference

2-Pentanone, 4-methyl- (CAS 108-10-1) U161 Acetone (CAS 67-64-1) U002 Toluene (CAS 108-88-3) U220

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

13. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN1950

Proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity)

Hazard class Limited Quantity - US Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN1950

Proper shipping name AEROSOLS, flammable Hazard class Limited Quantity - Canada

IATA/ICAO (Air)

Basic shipping requirements:

UN number UN1950

Proper shipping name Aerosols, flammable
Hazard class Limited Quantity - IATA

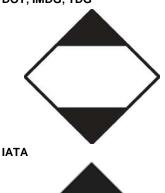
IMDG (Marine Transport)

Basic shipping requirements:

UN number UN1950 Proper shipping name AEROSOLS

Hazard class Limited Quantity - IMDG

DOT; IMDG; TDG



14. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Canada DSL Challenge Substances: Listed substance

Carbon black (CAS 1333-86-4) Listed. Isobutane (CAS 75-28-5) Listed.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

2-Pentanone, 4-m ethyl- (CAS 1 08-10-1) 1 T ONNES 2-Propanol, 1-methoxy-, acetate (CAS 108-65-6) 1 TONNES Heptane (CAS 142-82-5) 1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

 Carbon black (CAS 1333-86-4) 1 % Heptane (CAS 142-82-5) 1 % Toluene (CAS 108-88-3) 1 %

WHMIS status Controlled

WHMIS classification Class A - Compressed Gas, Class B - Division 5 - Flammable Aerosol, Class D - Division 2A, 2B

WHMIS labeling







US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

2-Pentanone, 4-methyl- (CAS 108-10-1) 1.0 % Toluene (CAS 108-88-3) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Toluene (CAS 108-88-3) Listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US CWA Section 311 Hazardous Substances: Listed substance

Toluene (CAS 108-88-3) Listed

US CWA Section 307(a)(1) Toxic Pollutants: Listed substance

Toluene (CAS 108-88-3) Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

 2-Pentanone, 4-methyl- (CAS 108-10-1)
 Listed.

 Acetone (CAS 67-64-1)
 Listed.

 Heptane (CAS 142-82-5)
 Listed.

 Isobutane (CAS 75-28-5)
 Listed.

 Methane, oxybis- (CAS 115-10-6)
 Listed.

 Propane (CAS 74-98-6)
 Listed.

 Toluene (CAS 108-88-3)
 Listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

 2-Pentanone, 4-methyl- (CAS 108-10-1)
 Listed.

 Acetone (CAS 67-64-1)
 Listed.

 Methane, oxybis- (CAS 115-10-6)
 Listed.

 Toluene (CAS 108-88-3)
 Listed.

US CAA Section 112(r) Accidental Release Prevention - Regulated Flammable Substance: Listed substance

Isobutane (CAS 75-28-5)

Methane, oxybis- (CAS 115-10-6)

Propane (CAS 74-98-6)

Regulated flammable substance.

Regulated flammable substance.

US CAA Section 112(r) Accidental Release Prevention: Threshold quantity

 Isobutane (CAS 75-28-5)
 10000 LBS

 Methane, oxybis- (CAS 115-10-6)
 10000 LBS

 Propane (CAS 74-98-6)
 10000 LBS

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Isobutane (CAS 75-28-5)Listed.Methane, oxybis- (CAS 115-10-6)Listed.Propane (CAS 74-98-6)Listed.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Toluene (CAS 108-88-3) Listed.

US CAA Section 612 SNAP Program: Listed substance

Acetone (CAS 67-64-1)

Methane, oxybis- (CAS 115-10-6)

Propane (CAS 74-98-6)

Listed.

Listed.

US CAA VOCs with Negligible Photochemical Activity: Listed substance

Acetone (CAS 67-64-1) Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No SARA 302 Extremely No hazardous substance
SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Toluene	108-88-3	10 - 30	

Other federal regulations

Clean Water Act (CWA)
Section 112(r) (40 CFR
68.130)
Hazardous substance
Priority pollutant
Toxic pollutant
Not regulated.

(SDWA)

Food and Drug Not regulated.
Administration (FDA)

US state regulations

WARNING: This product contains a chemical known to the State of California to cause cancer and

birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

 2-Pentanone, 4-methyl- (CAS 108-10-1)
 Listed.

 Acetone (CAS 67-64-1)
 Listed.

 Carbon black (CAS 1333-86-4)
 Listed.

 Heptane (CAS 142-82-5)
 Listed.

 Toluene (CAS 108-88-3)
 Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

 2-Pentanone, 4-methyl- (CAS 108-10-1)
 Listed.

 Benzene (CAS 71-43-2)
 Listed.

 Carbon black (CAS 1333-86-4)
 Listed.

 Crystalline silica (CAS 14808-60-7)
 Listed.

 Toluene (CAS 108-88-3)
 Listed.

US - Illinois Chemical Safety Act: Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed.
Acetone (CAS 67-64-1) Listed.
Heptane (CAS 142-82-5) Listed.
Isobutane (CAS 75-28-5) Listed.
Methane, oxybis- (CAS 115-10-6) Listed.
Propane (CAS 74-98-6) Listed.
Toluene (CAS 108-88-3) Listed.

US - Louisiana Spill Reporting List: Reportable quantity (total mass into atmosphere)

2-Pentanone, 4-methyl- (CAS 108-10-1) 1000 LBS

US - Louisiana Spill Reporting: Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed.
Acetone (CAS 67-64-1) Listed.
Heptane (CAS 142-82-5) Listed.
Isobutane (CAS 75-28-5) Listed.
Methane, oxybis- (CAS 115-10-6) Listed.
Propane (CAS 74-98-6) Listed.
Toluene (CAS 108-88-3) Listed.

US - Michigan Critical Materials Register: Parameter number

Toluene (CAS 108-88-3) 00108-88-3 Listed.

US - Minnesota Haz Subs: Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Acetone (CAS 67-64-1) Listed. Carbon black (CAS 1333-86-4) Listed. Heptane (CAS 142-82-5) Listed. Isobutane (CAS 75-28-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Propane (CAS 74-98-6) Listed. Toluene (CAS 108-88-3) Listed.

US - New Jersey RTK - Substances: Listed substance

 2-Pentanone, 4-methyl- (CAS 108-10-1)
 Listed.

 Acetone (CAS 67-64-1)
 Listed.

 Carbon black (CAS 1333-86-4)
 Listed.

 Heptane (CAS 142-82-5)
 Listed.

 Isobutane (CAS 75-28-5)
 Listed.

 Methane, oxybis- (CAS 115-10-6)
 Listed.

 Propane (CAS 74-98-6)
 Listed.

Toluene (CAS 108-88-3) Listed. US - New York Release Reporting: Hazardous Substances: Listed substance 2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Acetone (CAS 67-64-1) Listed. Toluene (CAS 108-88-3) Listed. US - North Carolina Toxic Air Pollutants: Listed substance 2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Toluene (CAS 108-88-3) Listed. US - Texas Effects Screening Levels: Listed substance 2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. 2-Propanol, 1-methoxy-, ace tate (CAS 10 8-65-6) Listed. Acetone (CAS 67-64-1) Listed. Carbon black (CAS 1333-86-4) Listed. Distillates, petroleum, steam-cracked, polymers with Listed. light steam-cracked petroleum naphtha (CAS 68410-16-2) Heptane (CAS 142-82-5) Listed. Isobutane (CAS 75-28-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Propane (CAS 74-98-6) Listed. Quaternary ammonium compounds, Listed. bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite (CAS 68953-58-2) Toluene (CAS 108-88-3) Listed. US - Washington Chemical of High Concern to Children: Listed substance Toluene (CAS 108-88-3) Listed. **US. Massachusetts RTK - Substance List** 2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Acetone (CAS 67-64-1) Listed. Carbon black (CAS 1333-86-4) Listed. Heptane (CAS 142-82-5) Listed. Isobutane (CAS 75-28-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Propane (CAS 74-98-6) Listed. Toluene (CAS 108-88-3) Listed. US. Pennsylvania RTK - Hazardous Substances 2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Acetone (CAS 67-64-1) Listed. Carbon black (CAS 1333-86-4) Listed. Heptane (CAS 142-82-5) Listed.

Isobutane (CAS 75-28-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Propane (CAS 74-98-6) Listed. Toluene (CAS 108-88-3) Listed.

US. Rhode Island RTK

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Acetone (CAS 67-64-1) Listed. Isobutane (CAS 75-28-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Propane (CAS 74-98-6) Listed. Toluene (CAS 108-88-3) Listed.

Inventory status

Country(s) or region Inventory name On inventory (yes/no)* Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

#21414 Page: 13 of 14 Issue date 27-February-2015

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

15. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date27-February-2015Effective date28-February-2015Expiry date28-February-2018

Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Prepared by Nu-Calgon Technical Service Phone: (314) 469-7000

Other information This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication

Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).